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SOURCE Radio, No 3, 1950.NEED OF QUALITY TUBES FOR TELEVISION SETS

In recent years our radio industry has put out several television models. In Moscow and Leningrad, where television centers operate regularly, there are a large number of commercial and amateur television sets. Each owner has a right to expect long uninterrupted service from his set.

As we all know, the reliability of radio apparatus depends first of all on the quality of its parts and tubes. However, in this respect, matters are far from satisfactory. For example, the G-411 tube is most often used in line scanning. Frequently, this tube is not available in the shops. However, the main trouble is not scarcity but the fact that a large percentage of these tubes are of very poor quality. The Central DOSARM Club obtained 20 G-411 tubes. When tested in the "Leningrad T-1" television set and the "Moskvich T-1," 25 percent were found to be unsuitable.

The main defects of the G-411 tube are: poor quality of the glue in the base, insufficient exhaustion, and considerable variation of parameters. In spite of very careful handling, the base soon comes off; in operation, the tube often becomes gassy; and the considerable variation of its parameters makes it unsatisfactory for use as a sweep generator due to the appreciable fluctuations in the line frequency and high voltage on the picture tube. As a result, the line frequency often gets beyond control limits and it becomes necessary to select different circuit elements for each individual tube. Moreover, the G-411 does not have a standard base and the tube panels for such bases are not on sale.

Through the pages of the Radio, we appeal to the Ministry of the Communications Equipment Industry and to the collective of radio tube plants to take up the question of improving the quality of tubes for television sets, particularly, sweep generators and output tubes for systems with separate generators. It is essential that all these tubes have standard bases.

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- 1 -

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Considering the rate at which television is developing, it is not possible to defer solution of problems connected with the production of quality tubes for television sets. Solution of these problems will relieve the radio amateur of hunting for tubes for his television set and will free the television repair shops from having to send out their expert personnel to change radio tubes which have become defective before the expiration of the factory guaranteed period. Letter to the editor, signed by A. Korniyenko, B. Levandovskiy, and N. Kuznetsov, Moscow.

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- 2 -

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